

## ACCESS SERVICE

CHECK SHEET

Title Page and Pages 1 to 301 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplement Nos. 17, 38, 58, 60, 64, 66, 67, 68, 69, 71, 73, 74, 75, 76, 77, 78, 79, 80, 81 and 82 contain all changes from the original tariff that are in effect on the date hereof.

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Title	6th	12.3	4th	36	6th
1	450th*	12.3	Original	36.1	10th
1.1	156th	13	2nd	37	19th
1.2	77th	14	2nd	37.1	6th
1.3	116th	15	3rd	37.2	6th
1.4	94th	16	6th	37.3	1st
1.5	140th	16.1	3rd	37.4	1st
1.6	62nd	17	3rd	38	15th
1.7	72nd	18	3rd	38.1	13th
1.8	33rd*	19	5th	38.2	1st
2	4th	19.1	8th	40	3rd
3	10th	20	5th	40.1	5th
4	8th	21	3rd	40.2	2nd
5	13th	22	2nd	41	2nd
5.1	14th	23	3rd	42	12th
6	14th	24	2nd	42.1	Original
6.1	5th	25	1st	43	13th
6.2	4th	26	1st	43.1	14th
7	5th	27	1st	43.1.1	8th
7.1	4th	28	7th	43.1.2	9th
7.2	5th	28.1	7th	43.1.3	6th
7.3	8th	28.2	8th	43.1.4	1st
7.4	12th	28.3	9th	43.2	6th
7.5	16th	28.4	12th	43.3	6th
7.6	1st	28.5	4th	43.4	3rd
8	4th	29	6th	43.4.1	1st
8.1	1st	30	5th	44	2nd
8.2	12th	30.1	1st	45	1st
8.3	2nd	30.2	Original	46	1st
8.4	5th	31	8th	47	1st
9	6th	32	6th	48	1st
10	7th	33	10th	49	1st
11	12th	34	8th	50	1st
11.1	2nd	35	9th	51	1st
12	8th	35.1	10th	52	1st
12.1	7th			53	1st
				54	1st

\*New or Revised Page

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255	Original	299.1	Original		
256	Original	300	8th		
257	Original	300.1	Original		
258	3rd	301	2nd		
258.1	Original	302	1st		
259	2nd	303	4th		
260	Original	304	1st		
261	1st	305	5th		
262	1st	305.1	1st		
263	2nd	306	10th		
264	1st	306.1	9th		
265	1st	306.2	1st		
266	1st	307	10th		
267	1st	308	Original		
268	1st	309	Original		
269	1st	310	2nd*		
270	1st	311	2nd*		
271	1st	312	2nd*		
272	1st	313	2nd*		
273	1st	314	3rd*		
274	1st	315	2nd*		
275	1st	316	2nd*		
276	1st	317	2nd*		
277	1st	318	2nd*		
278	1st	319	2nd*		
279	1st	320	2nd*		
280	1st	321	2nd*		
281	1st	322	3rd*		
282	1st	323	1st*		
283	1st	324	1st		
284	1st	325	1st		
285	1st	326	1st		
286	1st	327	1st		
287	1st	328	1st*		
288	1st	329	1st*		
289	3rd	330	1st*		
290	2nd	331	3rd		
291	1st	332	3rd		
292	2nd	333	3rd		
293	2nd	334	1st		
294	2nd	335	2nd		
295	2nd	336	2nd		
296	Original	337	1st		
297	2nd	338	1st		
298	Original	339	Original*		

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21. Wavelength Service

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## ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.1 General Description(A) Basic Service Description

Wavelength Service is a Special Access Service that provides high volume optical transport utilizing multiplexing technology in a point-to-point circuit configuration. Multiple data signals are transmitted over the same fiber-optic cable at the time, using different wavelengths of light, in order to increase the amount of information that can be transferred. Each wavelength represents a transmission channel in the Wavelength system and is protocol independent of every other channel in the system. Rates and charges for Special Access Service are set forth in Section 7.5. Wavelength Service allows customers to combine their multiple data signals so they may be amplified and transported over one network. Wavelength Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

The following regulations will apply to Wavelength Service:

- (1) Wavelength Point-to-Point Service is available with a one-year minimum period, under 12-month, 24-month, 36-month, 48-month, 60-month and 84-month OPP as described in Section 7.4.9. When a service is discontinued prior to the expiration of the minimum period, termination charges are applicable for the remaining portion of the minimum period.
- (2) Installation will not begin until the customer has accepted the proposal by the Telephone Company.

(N)

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ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.1 General Description (Cont'd)

(B) Service Provisioning

(2) Manner of Provisioning

Point-to-Point Service provides a customer a dedicated custom network. The network is in a architecture designed to provide increased reliability and functionality connecting multiple customer-designated locations and specified Telephone Company central Offices.

Customer provided equipment (CPE) must deliver the data signals for the Wavelength Service transport within the technical specifications for the subscribed data service. Technical specifications can be found in the Telcordia Technical Reference Publications and the following:

ANSI X379.3, Fibre Channel (also includes FICON<sup>™</sup> and ISC<sup>T</sup>)  
ANSI/IEEE 802.3, Fast Ethernet  
IEEE 802.3x and z, Gigabit Ethernet

(N)

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ACCESS SERVICE

21. Wavelength Service (Cont'd) (N)

21.1 General Description (Cont'd)

(B) Service Provisioning (Cont'd)

(3) Limitations

- (a) Optical amplifiers and/or regenerators may have to be added to a Wavelength Service subsequent to the initial installation.
- (b) When any additional services are added, such installations may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.
- (c) Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of Wavelength Service. The Telephone Company will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises. These services will not be available on Wavelengths nor between nodes where facility length limitations exceed the service specifications described in Sections 21.3(B)(1) & (2).
- (d) Neither electrical interfaces nor optical multiplexing are available with Wavelength Service.
- (e) Channel protection may not be available for all interface types.
- (f) A protective channel provides protection for a single channel toward the network. It does not protect the channel against failure towards the customer interface. Protection reduces the maximum individual channel capacity of the system. (N)

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## ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.1 General Description (Cont'd)(B) Service Provisioning (Cont'd)(4) Allowance for Service Interruptions

An interruption of service will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element as described in Section 2.4.4.

Any protected service interruptions greater than 2 consecutive seconds as a result of a failure on the protected portion of the circuit will result in a credit equal to one month's bill for the individual port-to-port connection involved. If the interruption occurs on an unprotected portion of the circuit, no credit shall be allowed for an interruption of less than thirty (30) minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or major fraction thereof that the interruption continues.

The minimum configuration would be two ports either at a serving wire center or at a customer premises site. If the ports are not in a serving wire center, a central office management site for monitoring is required. An optical amplifier located at a serving wire center can be used as a monitoring site.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

Wavelength Point-to-Point Service configuration would be a port or ports at a customer premise site connecting through a Company central office to another customer premise site.

(N)

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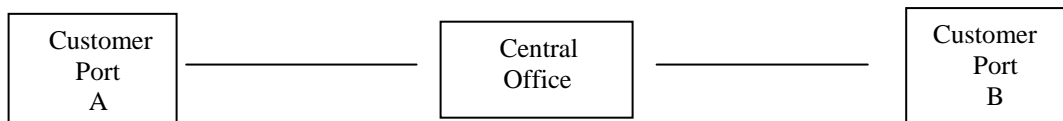
21. Wavelength Service (Cont'd)

(N)

21.1 General Description (Cont'd)(B) Service Provisioning (Cont'd)

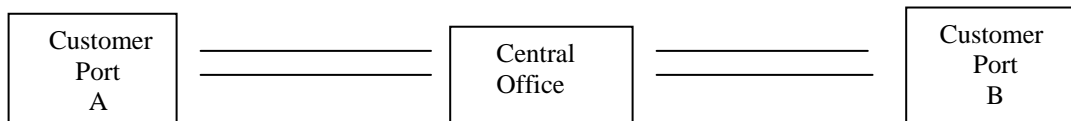
## CBT Point-to-Point Wavelength Service

## UNPROTECTED



## CBT Point-to-Point Wavelength Service

## PROTECTED

(C) Responsibility of The Telephone Company

The Telephone Company will provision and maintain Wavelength Service for the customer up to and including the Network Interface (NI).

(D) Responsibility of Customer

The customer is responsible for providing the compatible CPE to be used for the connection to the Wavelength Service.

(E) Service Rearrangements

Service rearrangements are provisioning changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises. See Section 13.3.11.

(N)

## ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.2 Route Diversity

Wavelength Service is configured with diversely routed fiber whenever possible. Unprotected channels will be lost in the event of a fiber path failure on which the circuit is assigned. Equipment interfaces towards the customer are not protected.

Routing of fiber may be diversified from the customer premises to their serving wire center or alternate serving wire center as determined by the Telephone Company, and where facilities are available, to ensure that loop fibers follow separate paths to the serving wire center or alternate serving wire center. Special construction costs may be incurred to ensure diverse routing of the fiber. In addition, IOF (interoffice facility) fiber paths may be diversified to ensure that at any serving wire center drop node, the fibers do not egress and ingress at the same location. In cases where the serving wire center does not have multiple entrance fiber facilities, the section of the fiber from the manhole closest to the serving wire center will be routed within the same duct structure.

At the customer's request, additional protection to the customer premises nodes can be provided via dual entrance facilities. This special request will cause the customer to incur special construction cost. Without this special request, diverse fiber is provided to the manhole closest to the customer premises. The customer or building owner is responsible for providing the conduit.

In the case where dual entrance facilities are not established at the customer premises, collapsed facilities from the customer premises to the building equipment location are not diverse.

(N)

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ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.3 Rate Regulations (Cont'd)

(A) Rate Elements

There are two basic rate elements which apply to Wavelength Service. The Port/per circuit termination can be located at either a customer premises or the Telephone Company Central Office.

(1) Customer Premises Port/Per circuit termination

Provides for the termination of service at the customer's premises and presents the various selected ports to the customer. Applies per customer designated premises.

(2) Central Office Port/Per circuit termination

Provides for the termination of service at a Telephone Company Serving Wire Center. Applies per Node at the Telephone Company Serving Wire Center.

(N)

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## ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.3 Rate Regulations (Cont'd)(B) Wavelength Connection Capacity

Wavelength Service offers the following port interfaces:

## (1) IBM Protocols:

FICON™ (1.0625 and 2.125 Gbps) - A higher-speed evolution of ESCON™, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON™ is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

ISC™ (1.0625 Gbps) - Inter-System Coupling. This protocol is used with IBM GDPS™ architecture for multiple-location host processors. ISC™ is limited to a maximum distance of 40 km.

## (2) Other Protocols:

Fibre Channel (1.0625 and 2.125 Gbps) - an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual throughput is distance sensitive.

Gigabit Ethernet - a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet - a version of Ethernet that allows data transmission rates of 10 Gbps.

10 Gigabit Ethernet (WAN-PHY) - a version of Ethernet that allows data transmission rates of 9.953 Gbps with a WAN-PHY only interface.

10 Gigabit Ethernet (LAN-PHY)- a version of Ethernet that allows data transmission rates of 10.3125 Gbps with a LAN-PHY only interface.

SONET OC-192/192c - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.

(N)

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ACCESS SERVICE

21. Wavelength Service (Cont'd)

(N)

21.3 Rate Regulations (Cont'd)

(C) Term Pricing Plan

The rates and charges set forth for Wavelength Service provide for the furnishing of service where suitable facilities are available. Where special construction of facilities is necessary, special construction charges may apply.

If Customer cancels, in whole or in part, any requested addition, rearrangement, relocation or other modification to Wavelength service prior to completion thereof, Customer will reimburse CBT for the actual expenses incurred by CBT in connection with such modification prior to CBT's receipt of notice of cancellation; provided, however, the amount of such reimbursement will not exceed the service, construction, installation, termination and other charges for which Customer would have otherwise been responsible.

Wavelength Service is available for a minimum term of 12 months or under a term payment plan of 12, 24, 36, 48, 60, or 84 months. If a Customer terminates a service, without cause, prior to the expiration of the term, the Customer will pay to CBT a termination charge equal to all remaining amounts due or to become due, including but not limited to all monthly charges for which Customer would have been responsible if the Customer had not terminated prior to the end of the applicable 12, 24, 36, 48, or 60-month term payment plan as shown in Section 7.4.9.

If Customer removes one or more ports from service prior to the expiration of the term hereof, Customer will pay to CBT a termination charge equal to all monthly charges for such element(s) for which Customer would have been responsible had Customer not removed such port(s).

(N)

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21. Wavelength Service (Cont'd)

(N)

21.3 Rate Regulations (Cont'd)

(C) Term Pricing Plan (Cont'd)

Upon completion of the term payment plan contract the customer may renew their contract at the current, tariffed rates. If customer does not renew their contract prior to the expiration date and does not select to discontinue Wavelength Service, CBT will furnish Wavelength Service to the Customer as specified in the contract on a month-to-month basis at the current, monthly tariffed rates (which will be subject to company initiated rate changes).

If customer elects a new term payment plan, prior to the expiration of their current contract, the monthly charges will be adjusted to the current tariffed rates in effect at the time of renewal. There will be no credits or refunds made to the Customer for payments made under the previous contract term, but nonrecurring charges will not be reapplied. If Customer reduces the number of ports in service, then termination charges will be applied for the removed service. Customer may not elect a term payment plan that is shorter than the remainder of the current term payment plan.

(N)

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## ACCESS SERVICE

21 Wavelength Service (Cont'd)

(N)

21.4 Rates and Charges Cont'd)(A) Ports Point-to Point Service

Per Port/Per circuit termination location

<u>USOC</u>	<u>12 Month</u>	<u>24 Month</u>	<u>36 Month</u>	<u>48 Month</u>	<u>60 Month</u>	<u>84 Month</u>	
FICON <sup>TM</sup> /1/ISC <sup>TM</sup> ESCON <sup>TM</sup> (1.0625 Gbps)							
- protected channel							
PROAD	5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00	
- unprotected channel							
UNPAD	2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00	
FICON <sup>TM</sup> /1/ESCON <sup>TM</sup> (2.125 Gbps)							
- protected channel							
PROBD	5,916.66	5,735.00	5,506.66	5,325.00	5,190.00	3,650.00	
- unprotected channel							
UNPBD	2,958.33	2,867.50	2,753.33	2,662.50	2,595.00	1,825.00	
Fibre Channel (1.0625 Gbps)							
- protected channel							
PROCD	5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00	
- unprotected channel							
UNPCD	2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00	
Fibre Channel (2.125 Gbps)							
- protected channel							
PRODD	5,916.66	5,735.00	5,506.66	5,325.00	5,190.00	3,650.00	
- unprotected channel							
UNPDD	2,958.33	2,867.50	2,753.33	2,662.50	2,595.00	1,825.00	
SONET OC-192/OC-192c							
- protected channel							
PROED	11,250.00	10,875.00	10,500.00	10,125.00	9,750.00	7,000.00	
- unprotected channel							
UNPED	5,625.00	5,437.50	5,250.00	5,062.50	4,875.00	3,500.00	(N)

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## ACCESS SERVICE

21 Wavelength Service (Cont'd)

(N)

21.4 Rates and Charges Cont'd)(A) Ports Point-to Point Service (Cont'd)

Per Port/Per circuit termination location

	<u>USOC</u>	<u>12 Month</u>	<u>24 Month</u>	<u>36 Month</u>	<u>48 Month</u>	<u>60 Month</u>	<u>84 Month</u>	
1 Gbps Ethernet								
- protected channel								
PROFD		5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00	
- unprotected channel								
UNPFD		2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00	
10 Gbps Ethernet								
- protected channel								
PROGD		11,250.00	10,875.00	10,500.00	10,125.00	9,750.00	7,000.00	
- unprotected channel								
UNPGD		5,625.00	5,437.50	5,250.00	5,062.50	4,875.00	3,500.00	(N)

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## ACCESS SERVICE

22 Contract Tariffs

This section contains terms and conditions and rates and charges for contract tariffs provided by the Telephone Company. Individual contract tariffs are filed in 22.2 following.

22.1 General

Contract tariffs apply in the Metropolitan Statistical Areas (MSA) which are eligible for Phase I and Phase II Pricing Flexibility.

Telephone Company Pricing Flexibility eligible MSA's are:

Phase I Pricing Flexibility:

Cincinnati, OH-KY-IN MSA  
Hamilton-Middletown, Ohio MSA

Applicable services:

Switched Access Service\*

Entrance Facilities  
Direct trunk transport  
Voice Grade  
DS1  
DS3  
CCS/SS7 Interconnection Service

\*Includes the flat-rated portion of tandem-switched transport, and the optional features and functions associated with these services.

Special Access Service\*\*

Voice Grade  
Program Audio  
Video  
Digital Data  
Frame Relay Service  
DS1  
DS3  
OC-Service  
Shared SONET Service  
Wavelength Service

(N)

\*\*Includes channel terminations between the end office and the customer premises, channel mileage, and optional features and functions associated with these services.

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22 Contract Tariffs Cont'd

22.1 General Cont'd

Phase II Pricing Flexibility:

Cincinnati, OH-KY-IN MSA

Applicable services:

Special Access Service\*\*\*

Voice Grade  
Program Audio  
Video  
Digital Data  
Frame Relay Service  
DS1  
DS3  
OC-Service  
Shared SONET Service  
Wavelength Service

(N)

\*\*\*Channel terminations between the IXC POP and  
the serving wire center only

Contract Tariffs are subject to the regulations specified in all other  
Sections of this tariff, unless otherwise specified.

## ACCESS SERVICE

23 Pricing Flexibility Special Access Service23.1 General Regulations

This section provides regulations, rates and charges applicable to special access services provided by the telephone Company in the Cincinnati, OH-KY-IN MSA and the Hamilton-Middletown, Ohio MSA for which the Telephone Company has received Phase II pricing flexibility pursuant to Subpart H of Part 69 of the Commission's Rules.

- (A) The pricing flexibility special access services pursuant to the section are channel terminations between the IXC POP and the serving wire center only for the following services:

Voice Grade  
Program Audio  
Video  
Digital Data  
Frame Relay Service  
DS1  
DS3  
OC-Service  
Shared SONET Service  
Wavelength Service

(N)

The general regulations, service description, channel interface and network codes and rate regulations are set forth in Sections 7 and 18 of this tariff. Where the regulations in Sections 7 and 18 conflict with those set forth in this section, the regulations specified in this section for the provision of special access services in the Telephone Company's pricing flexibility MSAs will take precedent.

- (B) Unless otherwise provided in this section, the regulations set forth in Sections 1, 2, 5, and 13 are applicable to special access services provided in the Telephone Company's pricing flexibility MSAs.

23.2 Application of Rates and Charges

The rates and charges for special access services provided in pricing flexibility MSAs are set forth in 22.3 following. Rates and charges for non-flexibility areas are set forth in Sections and 7.5 and 18.6 preceding.

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## ACCESS SERVICE

23 Pricing Flexibility Special Access Service (Cont'd)23.3 Rates and Charges (Cont'd)

## Wavelength Service

(N)

(A) Ports Point-to Point Service

Per Port/Per circuit termination location

USOC	12 Month	24 Month	36 Month	48 Month	60 Month	84 Month	
FICON <sup>TM</sup> /1/ISC <sup>TM</sup> ESCON <sup>TM</sup> (1.0625 Gbps)							
- protected channel							
PROA4	5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00	
- unprotected channel							
UNPA4	2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00	
FICON <sup>TM</sup> /1/ESCON <sup>TM</sup> (2.125 Gbps)							
- protected channel							
PROB4	5,916.66	5,735.00	5,506.66	5,325.00	5,190.00	3,650.00	
- unprotected channel							
UNPB4	2,958.33	2,867.50	2,753.33	2,662.50	2,595.00	1,825.00	
Fibre Channel (1.0625 Gbps)							
- protected channel							
PROC4	5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00	
- unprotected channel							
UNPC4	2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00	
Fibre Channel (2.125 Gbps)							
- protected channel							
PROD4	5,916.66	5,735.00	5,506.66	5,325.00	5,190.00	3,650.00	
- unprotected channel							
UNPD4	2,958.33	2,867.50	2,753.33	2,662.50	2,595.00	1,825.00	
SONET OC-192/OC-192c							
- protected channel							
PROE4	11,250.00	10,875.00	10,500.00	10,125.00	9,750.00	7,000.00	
- unprotected channel							
UNPE4	5,625.00	5,437.50	5,250.00	5,062.50	4,875.00	3,500.00	(N)

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Vice President  
221 east Fourth Street  
Cincinnati, Ohio 45202

## ACCESS SERVICE

23 Pricing Flexibility Special Access Service (Cont'd)23.4 Rates and Charges Cont'd)

## Wavelength Service (Con't)

(A) Ports Point-to Point Service (Cont'd)

Per Port/Per circuit termination location

	<u>USOC</u>	<u>12 Month</u>	<u>24 Month</u>	<u>36 Month</u>	<u>48 Month</u>	<u>60 Month</u>	<u>84 Month</u>	
1 Gbps Ethernet								
- protected channel								
PROF4		5,250.00	5,092.50	4,882.50	4,725.00	4,620.00	2,900.00	
- unprotected channel								
UNPF4		2,625.00	2,546.25	2,441.25	2,362.50	2,310.00	1,450.00	
10 Gbps Ethernet								
- protected channel								
PROG4		11,250.00	10,875.00	10,500.00	10,125.00	9,750.00	7,000.00	
- unprotected channel								
UNPG4		5,625.00	5,437.50	5,250.00	5,062.50	4,875.00	3,500.00	(N)

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